

*Requested non-sub - system  
PK printed a PPD in error*

*Receipt*

Patent

Attorney's Docket No. 0023-0014

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Stefan DYCKERHOFF et al.

Application No.: 09/751,454

Filed: January 2, 2001

For: SYSTEMS AND METHODS FOR  
ALLOCATING BANDWIDTH FOR  
PROCESSING OF PACKETS

Group Art Unit: 2661

Examiner: Unassigned



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AUG 15 2001  
Technology Center 2600

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents and Trademarks  
Washington, D.C. 20231

Sir:

We are forwarding herewith a copy of a Filing Receipt for the above-identified patent application. As indicated in red ink on the attached copy, there is an error in the Filing Receipt. Also attached herewith is a copy of page 1 of the specification and Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i) and a copy of the stamped postcard indicating receipt of these documents at the PTO on January 2, 2001.

Please correct the following: In the Domestic Priority data as claimed by applicant section, please insert --This application is a Continuation-In-Part of U.S. Patent Application Serial No. 09/534,838, filed March 24, 2000.--

In the Projected Publication Date section, please delete "07/04/2002", and insert in its place --Request for Non-Publication Acknowledged--.

- ☒ Since the errors were made on the part of the Patent Office, no fee is required.
- ☐ Since the errors were made on the part of the undersigned, ☐ a check in the amount \$25.00 is enclosed; or ☐ charge \$25.00 to deposit account 50-1070.

It is respectfully requested that a corrected Filing Receipt be issued as soon as possible.

Respectfully submitted,

HARRITY & SNYDER, L.L.P.



26615

PATENT TRADEMARK OFFICE

By:

*[Signature]*

Paul A. Harrity  
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Date: May 25, 2001



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/751,454	01/02/2001	2661	2276	0023-0014	16	82	7

CONFIRMATION NO. 7151

UPDATED FILING RECEIPT



\*OC000000006096331\*

26615  
HARRITY & SNYDER, LLP  
11240 WAPLES MILL ROAD  
SUITE 300  
FAIRFAX, VA 22030

Date Mailed: 05/21/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

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Chang-Hong Wu, Cupertino, CA;

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Domestic Priority data as claimed by applicant -- This application is a Continuation-In-Part of  
U.S. Patent Application Serial No. 09/534,838, filed March 24, 2000. --

## Foreign Applications

If Required, Foreign Filing License Granted 02/15/2001

Projected Publication Date: ~~07/04/2002~~ -- Request for Non-Publication Acknowledged --

Non-Publication Request: Yes

Early Publication Request: No

Title

# Systems and methods for allocating bandwidth for processing of packets

## Preliminary Class

370

**Data entry by : TSIGE, WUBALEM**

**Team : OIPE**

**Date:** 05/21/2001

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DATE 08-21-2001 BY 60322 UCBAW/SJS

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Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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**NOT GRANTED**

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**PLEASE NOTE the following information about the Filing Receipt:**

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
Washington, DC 20231



Attorney Docket No. 0023-0014

SYSTEMS AND METHODS FOR ALLOCATING  
BANDWIDTH FOR PROCESSING OF PACKETS

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RELATED APPLICATION

This application claims priority under 35 U.S.C. § 120 as a continuation-in-part of U.S.

5 Patent Application, Serial No. 09/534,838, filed March 24, 2000, which is hereby incorporated  
by reference.

BACKGROUND OF THE INVENTION

A. Field of the Invention

The present invention relates generally to routing systems and, more particularly, to  
10 systems and methods for allocating bandwidth for the processing of packets within a router.

B. Description of Related Art

Conventional networks typically include routers that route packets from one or more  
sources to one or more destinations. A packet is a format in which data of variable size can be  
transmitted through a network. A router is a switching device that receives packets containing  
15 data or control information at input ports and, based on destination or other information included  
in the packets, routes the packets through output ports to the destinations or intermediary  
destinations. Conventional routers determine the proper output port for a particular packet by  
evaluating header information included in the packet.

Conventional routers include buffers to support a particular bandwidth. If the input  
20 bandwidth exceeds the bandwidth of the router, the router may drop data or packets. The amount  
of input bandwidth may depend on a number factors, including the input line rate, the speed of  
the output determination process, and the blocking characteristics of the switching mechanisms



Patent  
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In re Patent Application of	)	
	)	
Stefan Dyckerhoff et al.	)	Group Art Unit: Unassigned
	)	
Application No.: Unassigned	)	Examiner: Unassigned
	)	
Filed: January 2, 2001	)	
	)	
For: SYSTEMS AND METHODS FOR	)	
ALLOCATING BANDWIDTH FOR	)	
PROCESSING OF PACKETS	)	

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AUG 15 2001  
Technology Center 2600

**REQUEST FOR NON-PUBLICATION OF APPLICATION AND  
CERTIFICATION UNDER 35 U.S.C. §122 (b)(2)(B)(i)**

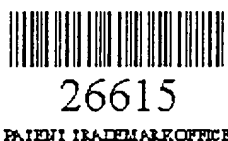
Commissioner of Patent and Trademarks  
Washington, D.C. 20231

Sir:

As an authorized agent of the above-identified applicant(s), the undersigned attorney hereby certifies that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. §122(b).

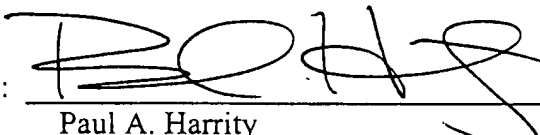
I further understand that this non-publication request may be rescinded at any time and if so, the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

I further understand that if applicant(s) subsequently file(s) an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the United States Patent and Trademark Office must be notified of such filing within forty-five (45) days after the date of the filing of such foreign or international application. I also understand that failure by applicant(s) to so notify the Patent and Trademark Office will result in abandonment of this application.



Respectfully submitted,

HARRITY & SNYDER, L.L.P.

By:   
Paul A. Harrity  
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11240 Waples Mill Road  
Suite 300  
Fairfax, Virginia 22030  
(571) 432-0800

Date: January 2, 2001

Inventor(s): Stefan Dyckerhoff et al.

Appl. No.: Unassigned

Docket No.: 0023-0014

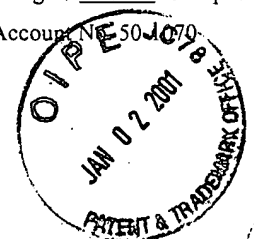
Working Atty: PAH

Date: January 2, 2001

Title: SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH FOR PROCESSING OF PACKETS

The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- |                                                                                               |                                                                                |                                                                 |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <input checked="" type="checkbox"/> Utility Patent Application                                | <input type="checkbox"/> Executed Declaration/Power of Attorney                | <input type="checkbox"/> Check for \$ <u>amount</u> is enclosed |
| <input type="checkbox"/> Design Patent                                                        | <input type="checkbox"/> Unexecuted Declaration/Power of Attorney              | <input type="checkbox"/> Check for \$ <u>amount</u> is enclosed |
| <input type="checkbox"/> Continuing Prosecution App. Req.                                     | <input checked="" type="checkbox"/> Request for Non-Publication of Application | <input type="checkbox"/> Charge \$ <u>amount</u> to Deposit     |
| <input type="checkbox"/> Provisional Application Cover Sheet                                  | <input type="checkbox"/> Assignment/Assignment Recordation (PTO-1595)          | Account No. <u>50-1070</u>                                      |
| <input type="checkbox"/> Provisional Application                                              | <input type="checkbox"/> Claim for Convention Priority w/# cert. copy(ies)     | <input type="checkbox"/>                                        |
| <input type="checkbox"/> Continuation/Divisional App. (Rule 1.53(b)) with copy of application | <input type="checkbox"/> Preliminary Amendment                                 | <input type="checkbox"/>                                        |
|                                                                                               | <input type="checkbox"/> Information Disclosure Statement Transmittal          |                                                                 |
|                                                                                               | <input type="checkbox"/> Information Disclosure Statement w/# reference(s)     |                                                                 |
|                                                                                               | <input type="checkbox"/> Information Disclosure Citation (PTO-1449)            |                                                                 |
|                                                                                               | <input type="checkbox"/> Petition for # Month Extension of Time                |                                                                 |
|                                                                                               | <input type="checkbox"/> Constructive Petition for Extension of Time           |                                                                 |
- APPLICATION INCLUDING:
- ☒ specification (45 pages)
  - ☒ claims (82 claims)
  - ☒ drawings (Fig(s). 1-17, 16 sheet(s))



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Bib Data Sheet

CONFIRMATION NO. 7151

<b>SERIAL NUMBER</b> 09/751,454	<b>FILING DATE</b> 01/02/2001 <b>RULE</b>	<b>CLASS</b> 370	<b>GROUP ART UNIT</b> 2662	<b>ATTORNEY DOCKET NO.</b> 0023-0014
<b>APPLICANTS</b> Stefan Dyckerhoff, Palo Alto, CA; Pankaj Patel, Cupertino, CA; Pradeep Sindhu, Los Altos Hills, CA; Ashok Krishnamurthi, San Jose, CA; Hann-Hwan Ju, San Jose, CA; Ramalingam K. Anand, San Jose, CA; Dennis C. Ferguson, Mountain View, CA; Chang-Hong Wu, Cupertino, CA;				
<b>** CONTINUING DATA *****</b> THIS APPLICATION IS A CIP OF 09/534,838 03/24/2000				
<b>** FOREIGN APPLICATIONS *****</b>				
<b>IF REQUIRED, FOREIGN FILING LICENSE GRANTED</b> <b>** 02/15/2001</b>				
Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature <i>[Signature]</i> Initials	<b>STATE OR COUNTRY</b> CA	<b>SHEETS DRAWING</b> 16	<b>TOTAL CLAIMS</b> 82
<b>INDEPENDENT CLAIMS</b> 7				
<b>ADDRESS</b> 26615				
<b>TITLE</b> Systems and methods for allocating bandwidth for processing of packets				
<b>FILING FEE RECEIVED</b> 2276	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

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